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INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference RLL-338WO		FOR FURTHER A	CTION	See Form PCT/IPEA/416	
			International filing date 01.03.2004	(day/month/year) .	Priority date (day/month/year) 28.02.2003
	national Patent Class IK9/20, A61K9/30	• •	ational classification and I	PC	
• •	licant NBAXY LABORA	ATORIES LIMIT	ED et al.		
1.	This report is the Authority under A	e international pre Article 35 and trar	liminary examination rensmitted to the applicar	port, established by according to Article	this International Preliminary Examining
2.	This REPORT co	onsists of a total o	of 5 sheets, including t	his cover sheet. 🥌	•
3.	This report is als	o accompanied b	y ANNEXES, comprisi	ng:	,•
	a. 🛭 sent to th	e applicant and to	the International Bure	au) a total of 3 shee	ets, as follows:
	and/o	ts of the description or sheets containing inistrative Instruct	ng rectifications authori	ngs which have beer zed by this Authority	n amended and are the basis of this report (see Rule 70.16 and Section 607 of the
	beyo	ts which supersed nd the disclosure llemental Box.	de earlier sheets, but w in the international app	hich this Authority co lication as filed, as ir	nsiders contain an amendment that goes ndicated in item 4 of Box No. I and the:
	sequence	listing and/or tab	ureau only) a total of (i les related thereto, in o Listing (see Section 80	omputer readable for	nber of electronic carrier(s)) , containing a rm only, as indicated in the Supplemental re Instructions).
4.	This report conta	ains indications re	lating to the following it	ems:	
	⊠ Box No. I	Basis of the opir	nion		
	☐ Box No. II	Priority			
	☐ Box No. III	Non-establishme	ent of opinion with rega	rd to novelty, inventi	ve step and industrial applicability
	☐ Box No. IV	Lack of unity of	invention		
	⊠ Box No. V	applicability; cita	ations and explanations	2) with regard to nove supporting such stat	elty, inventive step or industrial
	☐ Box No. VI	Certain docume			• • • • • • • • • • • • • • • • • • • •
	⊠ Box No. VII		in the international app		• . • •
	☐ Box No. VIII	Certain observa	tions on the internation	al application	
Date	of submission of the	demand		Date of completion of	this report
23.1	12.2004			08.04.2005	
Name and mailing address of the international		Authorized Officer			
preliminary examining authority: European Patent Office D-80298 Munich Tel. +49 89 2399 - 0 Tx: 523656 epmu d Fax: +49 89 2399 - 4465		Hedegaard, A	9 2399-8644		

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No. PCT/IB2004/000536

_		
_	Box No.	I Basis of the report
1.	With rega	ard to the language , this report is based on the international application in the language in which it wa ess otherwise indicated under this item.
	whic □ ir □ p	report is based on translations from the original language into the following language, ch is the language of a translation furnished for the purposes of: International search (under Rules 12.3 and 23.1(b)) Internation of the international application (under Rule 12.4) International preliminary examination (under Rules 55.2 and/or 55.3)
2.	have bee	ard to the elements* of the international application, this report is based on <i>(replacement sheets whici</i> en furnished to the receiving Office in response to an invitation under Article 14 are referred to in this so "originally filed" and are not annexed to this report):
:	Description	ion, Pages
	1-12	as originally filed
	Claims, N	Numbers
	1-39	received on 03.01.2005 with letter of 23.12.2004
	□ a sec	equence listing and/or any related table(s) - see Supplemental Box Relating to Sequence Listing
3.	□ tr □ tr □ tr □ tr	amendments have resulted in the cancellation of: he description, pages he claims, Nos. he drawings, sheets/figs he sequence listing (specify): any table(s) related to sequence listing (specify):
4.	had not b Suppleme	report has been established as if (some of) the amendments annexed to this report and listed below been made, since they have been considered to go beyond the disclosure as filed, as indicated in the tental Box (Rule 70.2(c)).
	□ th □ th □ th	he description, pages he claims, Nos. he drawings, sheets/figs he sequence listing <i>(specify)</i> : ny table(s) related to sequence listing <i>(specify)</i> :
	* If i	item 4 applies, some or all of these sheets may be marked "superseded "

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No. PCT/IB2004/000536

Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N) Yes: Claims 1-3, 5-7,10,13-14.17-18,21,23-26,29,31-33,36-37,39

No: Claims

Inventive step (IS) Yes: Claims 1-3, 5-7,10,13-14.17-18,21,23-26,29,31-33,36-37,39

No: Claims

Industrial applicability (IA) Yes: Claims 1-3, 5-7,10,13-14.17-18,21,23-26,29,31-33,36-37,39

No: Claims

2. Citations and explanations (Rule 70.7):

see separate sheet

Box No. VII Certain defects in the international application

The following defects in the form or contents of the international application have been noted:

see separate sheet

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (SEPARATE SHEET)

International application No.

PCT/IB2004/000536

Re Item V.

1 The following documents are referred to in this communication:

D1: EP 1 004 305 A D2: WO 98/52564 A

Document D1 (see Table III) discloses stable preparations comprising a core including sodium rabeprazole (50 mg) and HPC (450 mg).

Document D2 (see example 3) discloses cores including and active drug and small amounts of low viscosity HPC (HPC-L Klucel). On p. 4, l. 4 pariprazole (= rabeprazole) is disclosed as an example of an active drug.

- The subject-matter of claims 1-3, 5-7, 10, 13-14, 17-18 and 21 (composition); 23-26, 29, 31-33 and 36 (process); and 37 and 39 (method) is novel (Art. 33(2) PCT) since a core comprising rabeprazole and at least 10% w/w of low viscosity HPC has not been disclosed in any of the available prior art documents.
- The subject-matter of claim 1 differs from D1 (see above under item 1) in that it selects a particular HPC, namely low viscosity HPC.

There is no hint in D1 (alone or in combination with any other document) that more stable compositions of rabeprazole can be obtained when including at least 10% w/w of low viscosity HPC in the core. Therefore, the subject-matter of claims 1-3, 5-7, 10, 13-14, 17-18, 21, 23-26, 29, 31-33, 36-37 and 39 is considered to involve an inventive step (Art. 33(3) PCT).

Re Item VII.

1 The claims should be renumbered.

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (SEPARATE SHEET)

International application No.

PCT/IB2004/000536

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WE CLAIM:

- 1 1. A stable pharmaceutical composition comprising a core, wherein the core 2 includes rabeprazole and at least 10% w/w of low viscosity hydroxypropylcellulose.
- 1 2. The stable pharmaceutical composition according to claim 1, wherein the core further comprises an antioxidant.
- 1 3. The stable pharmaceutical composition according to claim 1, wherein the viscosity of the low viscosity hydroxypropylcellulose ranges from about 5 m. Pas to about 3 000 m. Pas.
- 1 4. Cancelled
- 5. Amended. The stable pharmaceutical composition according to claim 2,
 wherein the antioxidant comprises one or both of butylated hydroxy toluene and butylated
 hydroxy anisole.
- 1 6. The stable pharmaceutical composition according to claim 5, wherein the antioxidant comprises from about 0.02% to about 0.2% by weight of the total core weight.
 - 7. The stable pharmaceutical composition according to claim 1, wherein the core further comprise polyvinylpyrrolidone.
 - 8. Cancelled
- 1 9. Cancelled.
- 1 10. The stable pharmaceutical composition according to claim 7, wherein the polyvinylpyrrolidone comprises from about 0.5% to about 5% by weight of the total core weight.
- 1 11. Cancelled.
- 1 12. Cancelled.
- 1 13. The stable pharmaceutical composition according to claim 1, wherein the core is coated with a subcoat layer and an enteric coat layer.
- 1 14. Amended. The stable pharmaceutical composition according to claim 13,
 2 wherein the subcoat layer comprises one or more film forming agents comprising one or
 3 more of carageenan, ethylcellulose, hydroxypropyl methylcellulose, hydroxypropyl





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- 4 cellulose, methylcellulose, carboxymethylcellulose, hydroxymethylcellulose,
- 5 hydroxyethylcellulose, polyethylene glycol, polyvinyl alcohol and xanthan gum.
- 1 15. Cancelled
- 1 16. Cancelled.
- 1 17. Amended. The stable pharmaceutical composition according to claim 13, 2 wherein the subcoat layer includes an antioxidant.
- 1 18. Amended. The stable pharmaceutical composition according to claim 13,
- 2 wherein the enteric coat layer comprises one or more enteric polymers comprising one or
- 3 more of cellulose acetate phthalate, hydroxypropyl methylcellulose acetate phthalate,
- 4 polyvinyl acetate phthalate, hydroxy propyl phthalate, hydroxypropyl methylcellulose
- 5 phthalate, hydroxypropyl methylcellulose acetate succinate; and methacrylic acid
- 6 copolymers.
- 1 19. Cancelled
- 1 20. Cancelled.
- 1 21. Amended. The stable pharmaceutical composition according to claim 13,
- wherein one or more of the core, the subcoat layer, and the enteric layer further comprise
- 3 pharmaceutically acceptable inert excipients-selected from the group consisting of binders,
- 4 disintegrants, lubricants, glidants, diluents, plasticizers, opacifiers, and coloring agents.
- 1 22. Cancelled
- 1 23. A process for preparing a stable pharmaceutical composition comprising a core, the process comprising:
- 3 preparing a core by
- 4 (i) blending rabeprazole and a low viscosity hydroxypropylcellulose to form a 5 blend, and
- one or both of (ii) granulating the blend and (iii) compressing the blend to form
- 7 a compact mass core, wherein the low viscosity hydroxypropylcellulose comprises at least
- 8 10% w/w of the core.
- 1 24. Amended. The process according to claim 23, further comprising coating
- 2 the core with one or both of a subcoat layer and an enteric coat layer.

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l	25.	Amended. The process according to claim 23, further comprising blending
2.	one or more an	tioxidants with the rabeprazole and low viscosity hydroxypropylcellulose.
1	26.	The process according to claim 25, wherein the antioxidant is adsorbed
2	over a diluent.	
1	27.	Cancelled.
1	28.	Cancelled.
1	29.	The process according to claim 23, wherein the core is prepared by one or
2	more of a wet	granulation method, a dry granulation method, or a direct compression
3	method.	
1	30.	Cancelled.
1	31.	The process according to claim 24, wherein one or both of the subcoat layer
2	and the enteri	c coat layer are applied as a solution/suspension.
1	32.	The process according to claim 31, wherein the solution/suspension is
2	prepared in so	olvents selected from the group consisting of methylene chloride, isopropyl
3	alcohol, aceto	one, methanol, ethanol, water and mixtures thereof.
1	33.	The process according to claim 24, wherein one or both of the subcoat layer
2	and the enter	ic coat layer are applied using a hot melt technique.
1	34.	Cancelled.
1	35.	Cancelled.
1	36.	The process according to claim 24, wherein the viscosity of the low
2	viscosity hyd	lroxypropylcellulose ranges from about 5 m. Pas to about 300 m. Pas.
1	37.	Amended. A method of treating digestive ulcers in a mammal by
2	administerin	g to the mammal a stable pharmaceutical composition of rabeprazole
3	according to	claim 1.
1	38.	Cancelled .
1	39.	The method of treating of claim 37, wherein the core further comprises an
2	antioxidant.	
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